



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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Thermostatic faucet

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1 Scope

This document specifies the classification, appearance, processing and assembly, dimensions, limits for hazardous substance extraction, and performance requirements for thermostatic faucets (hereinafter referred to as "faucets"), describes the corresponding test methods, and specifies the conditions of use, materials and associated devices, inspection rules as well as marking, packaging, transport and storage.

This document applies to the design, production, inspection and sale of faucets that are installed in washrooms (restrooms and bathrooms), kitchens, and other household and similar places of use and whose outlet water temperature is controlled at a preset temperature.

2 Normative references

The following documents contain requirements which, through reference in this text, constitute provisions of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 2828.1 Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 7306.1 Pipe threads with 55 degree thread angle where pressure-tight joints are made on the threads - Part 1: Parallel internal and taper external threads

GB/T 7306.2 Pipe threads with 55 degree thread angle where pressure-tight joints are made on the threads - Part 2: Taper internal and external threads

GB/T 7307 Pipe threads with 55 degree thread angle where pressure-tight joints are not made on the threads

GB/T 23448 Sanitary ware - Flexible hose

GB/T 33733 Terminology and classification for the kitchen and sanitary ware fittings

GB/T 44180-2024 General technical requirements for kitchen and sanitary ware fittings

JC/T 932 Drainage fittings for sanitary wares

QB/T 1334-2013 General technical specifications for faucets

QB/T 5525 Limits and test methods for hazardous substances extraction in kitchen and sanitary hardware products

3 Terms and definitions

For the purpose of this document, the terms and definitions defined in GB/T 33733 and the following apply.

3.1 electronic faucet

faucet that is powered by one or more means including external power supply, battery, or hydroelectric power, and realizes one or more functions such as non-contact control, touch control, voice control, application/application software (APP) remote control and temperature display

[Source: QB/T 5003-2024, 3.1]

3.2 safety lock

component that restricts the temperature adjustment device from continuing to rotate or move in the direction of increasing temperature

Note: When the user needs to continue increasing the temperature, the safety lock can be released, generally by pressing.

4 Classification

4.1

According to the control method, they are classified into mechanical faucets and electronic faucets.

4.2

According to the occasion of use, they are classified into washbasin faucets, kitchen faucets, shower faucets, bathtub faucets and bidet faucets, etc.

4.3

According to the power supply mode, they are classified into AC power supply faucets and DC power supply faucets.

5 Conditions of use

Faucets shall function normally under the following conditions:

- a) Ambient temperature: 1 °C ~ 55 °C;
- b) Relative ambient humidity (RH): not greater than 93% (at 25 °C);
- c) Working pressure: 0.05 MPa ~ 1.0 MPa; if exceeding 0.5 MPa, install a pressure reducing valve;
- d) Medium service temperature: cold water temperature 4 °C ~ 29 °C, hot water temperature 45 °C ~ 85 °C.

6 Materials and associated devices

6.1

All materials used in faucets that come into contact with drinking water shall not, under the conditions of use specified in this document, cause harm to human health or cause any changes in the quality, appearance, taste, odor, etc. of drinking water.

6.2

Components of faucets that come into contact with water shall not be made of corrosion-prone materials such as zinc alloy.

6.3

Hoses used with faucets shall comply with the provisions of GB/T 23448.

6.4

Drainage fittings used with faucets shall comply with the provisions of JC/T 932.

7.1 Appearance

7.1.1

The coating surface shall have uniform gloss and shall be free from defects such as peeling, cracking, scorching, exposed substrate, flaking, black spots, obvious pitting and burrs.

7.1.2

The sprayed surface shall have a fine, dense, smooth texture and uniform color, and shall be free from defects such as sagging, exposed substrate, obvious scratches and dents.

7.1.3

The polished surface shall be smooth and free from obvious defects such as burrs, scratches and dents.

7.1.4

The surface of plastic parts shall be free from obvious defects such as filler spots, ripples, flash, sink marks, warping, weld lines, abrasions, scratches, finishing damage and dirt.

7.1.5

The surface of metal parts shall be free from defects such as corrosion, sand holes, shrinkage cavities, cracks and pores.

7.1.6

The outer surface of the touch panel shall be smooth and free from defects such as scratches, cracks and damage.

7.1.7

Surfaces easily touched by the human body shall be free from defects such as flash, burrs and sharp points.

7.2 Processing and assembly

7.2.1

The external thread surface of the faucet shall be free from obvious defects such as dents and broken threads. The external sealing pipe threads of the faucet shall comply with the provisions of GB/T 7306.1 or GB/T 7306.2. The external non-sealing pipe threads of faucets shall comply with the provisions of GB/T 7307, and the external threads shall not be lower than Class B of GB/T 7307.

7.2.2

The markings on the touch panel shall be concise and easy to understand, and the buttons or touch keys shall be clearly visible.